Supplemental Amendment and Remarks   Page 2 of 8
Serial No.: 09/345,335
Confirmation No.: 1129
Filed: July 1, 1999
For: PROCESS VARIABLE GENERALIZED GRAPHICAL DEVICE DISPLAY AND METHODS REGARDING
SAME

a gauge axis;

a first pair of high and low limit elements representative of engineering hard high and low limit values for the corresponding process variable that define a range in which operator set high and low limit values are set and a second pair of high and low limit elements representative of the operator set high and low limit values for the corresponding process variable which define a range in which the process is free to operate, where the first and second pair of high and low limit elements are displayed on the gauge axis; and

a graphical shape displayed along the gauge axis representative of a value of the corresponding process variable relative to the process limit values.

21. (Three Times Amended) A computer implemented method for providing a graphical user display for providing real-time process information to a user for a process that is operable under control of one or more process variables, wherein one or more of the process variables has high and low process limit values associated therewith, the method comprising the step of displaying at least one graphical device for a corresponding process variable, wherein displaying the at least one graphical device comprises:

displaying a gauge axis;

displaying a first pair of high and low limit elements representative of engineering hard high and low limit values for the corresponding process variable that define a range in which operator set high and low limit values are set and a second pair of high and low elements representative of the operator set high and low limit values for the corresponding process variable on the gauge axis which define a range in which the process is free to operate; and

displaying a graphical shape along the gauge axis representative of a value of the corresponding process variable relative to the high and low process limit values.

Supplemental Amendment and Remarks   Page 3 of 8
Serial No.: 09/345,335
Confirmation No.: 1129
Filed: July 1, 1999
For: PROCESS VARIABLE GENERALIZED GRAPHICAL DEVICE DISPLAY AND METHODS REGARDING
SAME

40. (Twice Amended) A graphical user display comprising one or more graphical devices for

providing real-time process information to a user for a continuous multivariable process being

performed at a process plant and operable under control of at least manipulated variables and

controlled variables of a plurality of process variables, wherein the graphical user display

comprises a display providing the manipulated variables and the controlled variables, and

wherein one or more of the process variables comprise high and low process limit values

associated therewith, wherein each of a plurality of the one or more graphical devices

corresponds to a process variable, wherein each graphical device corresponding to a process
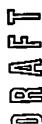
variable comprises:

     a gauge axis;

     a first pair of high and low limit elements representative of engineering hard high and

low limit values for the corresponding process variable that define a range in which operator set

high and low limit values are set and a second pair of high and low limit elements representative

of the operator set high and low limit values for the corresponding process variable which define

a range in which the process is free to operate, where the first and second pair of high and low

limit elements are displayed on the gauge axis; and

     a graphical shape displayed along the gauge axis representative of a value of the

corresponding process variable relative to process limit values that provides real-time process

information to a user for the process, and further wherein each of the plurality of graphical

devices is displayed in proximity to one of the manipulated and controlled variables.

43. (Once Amended) A graphical user display for providing real-time process information to a

user for a process that is operable under control of one or more process variables, wherein one or

more of the process variables has high and low process limit values associated therewith, the

graphical user display comprising one or more graphical devices, wherein each of a plurality of

Supplemental Amendment and Remarks   Page 4 of 8
Serial No.: 09/345,335
Confirmation No.: 1129
Filed: July 1, 1999
For: PROCESS VARIABLE GENERALIZED GRAPHICAL DEVICE DISPLAY AND METHODS REGARDING
SAME

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the graphical devices correspond to a process variable, wherein at least one graphical device

corresponding to a process variable comprises:

　　　　a gauge axis;

　　　　a first pair of high and low limit elements representative of engineering hard and low

limit values for the corresponding process variable that define a range in which operator set high

and low limit values are set and a second pair of high and low limit elements representative of

the operator set high and low limit values for the corresponding process variable which define a

range in which the process is free to operate, where the first and second pair of high and low

limit elements are displayed on the gauge axis;

　　　　a graphical shape displayed along the gauge axis representative of a value of the

corresponding process variable relative to the process limit values; and

　　　　a graphical symbol representative of an optimization characteristic for the corresponding

process variable.

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47. (Once Amended) A computer implemented method for providing a graphical user display

for providing real-time process information to a user for a process that is operable under control

of one or more process variables, wherein one or more of the process variables has high and low

process limit values associated therewith, wherein the method comprises displaying a plurality of

graphical devices for corresponding process variables, wherein displaying at least one of the

graphical devices comprises:

　　　　displaying a gauge axis;

　　　　displaying a first pair of high and low limit elements representative of engineering hard

high and low limit values for the corresponding process variable that define a range in which

operator set high and low limit values are set and a second pair of high and low elements

representative of the operator set high and low limit values for the corresponding process

variable on the gauge axis which define a range in which the process is free to operate;

Supplemental Amendment and Remarks   Page 5 of 8
Serial No.: 09/345,335
Confirmation No.: 1129
Filed: July 1, 1999
For: PROCESS VARIABLE GENERALIZED GRAPHICAL DEVICE DISPLAY AND METHODS REGARDING
SAME

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displaying a graphical shape along the gauge axis representative of a value of the
corresponding process variable relative to the high and low process limit values; and

displaying a graphical symbol representative of an optimization characteristic for the
corresponding process variable along the gauge axis.

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51. (Once Amended) A computer implemented method for providing a graphical user display
for providing real-time process information to a user for a continuous multivariable process
being performed at a process plant, wherein the continuous multivariable process is operable
under control of at least manipulated variables and controlled variables, wherein one or more of
the manipulated variables and controlled variables has high and low process limit values
associated therewith, wherein the method comprises displaying a matrix display having the
manipulated variables displayed along a first axis thereof and the controlled variables displayed
along a second axis thereof, and further wherein the method comprises displaying a graphical
device in proximity to each of the manipulated variables and controlled variables, wherein
displaying the graphical device comprises:

displaying a gauge axis;

displaying a first pair of high and low limit elements representative of
engineering hard high and low limit values for the corresponding process variable that
define a range in which operator set high and low limit values are set and a second
pair of high and low elements representative of the operator set high and low limit
values for the corresponding process variable on the gauge axis which define a range
in which the process is free to operate; and

displaying a graphical shape along the gauge axis representative of a value of the
corresponding process variable relative to the high and low process limit values.